

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,783,456 B2  
APPLICATION NO. : 10/549319  
DATED : August 24, 2010  
INVENTOR(S) : Satoshi Takahashi

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

At column 18, line 1 (Claim 20, line 10) of the printed patent, insert --a frequency-- after “obtaining, by”.

Signed and Sealed this  
Eighth Day of February, 2011

A handwritten signature in black ink that reads "David J. Kappos". The signature is written in a cursive, flowing style with a large initial "D" and a stylized "K".

David J. Kappos  
*Director of the United States Patent and Trademark Office*